\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:57:27 ON 25 JUN 2008

=> fil .bec

COST IN U.S. DOLLARS SINCE FILE

ENTRY SESSION FULL ESTIMATED COST 0.21 0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:58:06 ON 25 JUN 2008 ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

TOTAL

11 FILES IN THE FILE LIST

=> s luciferase#

FILE 'MEDLINE'

22691 LUCIFERASE#

FILE 'SCISEARCH'

17249 LUCIFERASE#

FILE 'LIFESCI'

8542 LUCIFERASE#

FILE 'BIOTECHDS' 4162 LUCIFERASE#

FILE 'BIOSIS' 21799 LUCIFERASE#

FILE 'EMBASE'

16575 LUCIFERASE#

FILE 'HCAPLUS'

23410 LUCIFERASE#

FILE 'NTIS' 1.8

163 LUCIFERASE#

FILE 'ESBIOBASE' FILE 'BIOTECHNO'

12125 LUCIFERASE#

T-10

8370 LUCIFERASE#

FILE 'WPIDS' L11 3750 LUCIFERASE#

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L12 138836 LUCIFERASE#

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26073 SPLIT

L13 28 L1 (5A) SPLIT

FILE 'SCISEARCH'

47728 SPLIT

1.14 32 L2 (5A) SPLIT

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FILE 'LIFESCI'
          6466 SPLIT
           11 L3 (5A) SPLIT
FILE 'BIOTECHDS'
           885 SPLIT
             9 L4 (5A) SPLIT
FILE 'BIOSIS'
         32432 SPLIT
L17
            17 L5 (5A) SPLIT
FILE 'EMBASE'
         23016 SPLIT
L18
           20 L6 (5A) SPLIT
FILE 'HCAPLUS'
         69477 SPLIT
           43 L7 (5A) SPLIT
L19
FILE 'NTIS'
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L20
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FILE 'ESBIOBASE'
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L21
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FILE 'BIOTECHNO'
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L22
            6 L10(5A) SPLIT
FILE 'WPIDS'
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L23
             1 L11(5A) SPLIT
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        268009 COMPLEMENT?
         41351 RECONSTITUT?
          3854 FRAGMENT? (10A) (COMPLEMENT? OR RECONSTITUT?)
FILE 'SCISEARCH'
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        187574 COMPLEMENT?
         41900 RECONSTITUT?
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          3052 FRAGMENT? (10A) (COMPLEMENT? OR RECONSTITUT?)
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         68007 COMPLEMENT?
         16873 RECONSTITUT?
         2308 FRAGMENT? (10A) (COMPLEMENT? OR RECONSTITUT?)
FILE 'BIOTECHDS'
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         31025 COMPLEMENT?
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        234191 COMPLEMENT?
         51442 RECONSTITUT?
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         13432 COMPLEMENT?
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        106001 FRAGMENT?
         68120 COMPLEMENT?
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        104598 FRAGMENT?
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        105486 FRAGMENT?
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L37
           12 L1 (10A)L25
FILE 'SCISEARCH'
L38
           11 L2 (10A) L26
FILE 'LIFESCI'
L39
             4 L3 (10A) L27
FILE 'BIOTECHDS'
1.40
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FILE 'BIOSIS'
L41
             5 L5 (10A)L29
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FILE 'EMBASE'
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FILE 'HCAPLUS'
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L43
FILE 'NTIS'
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FILE 'ESBIOBASE'
L45
            5 L9 (10A)L33
FILE 'BIOTECHNO'
L46
            3 L10(10A)L34
FILE 'WPIDS'
L47
            2 L11(10A)L35
TOTAL FOR ALL FILES
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           12 (L14 OR L38) NOT 2005-2008/PY
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L51
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FILE 'BIOTECHDS'
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           10 (L17 OR L41) NOT 2005-2008/PY
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           10 (L18 OR L42) NOT 2005-2008/PY
L54
FILE 'HCAPLUS'
       4799065 2005-2008/PY
L55
            22 (L19 OR L43) NOT 2005-2008/PY
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         52901 2005-2008/PY
             1 (L20 OR L44) NOT 2005-2008/PY
FILE 'ESBIOBASE'
       1144073 2005-2008/PY
             7 (L21 OR L45) NOT 2005-2008/PY
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FILE 'BIOTECHNO'

0 2005-2008/PY

1.58 7 (L22 OR L46) NOT 2005-2008/PY

FILE 'WPIDS'

4229710 2005-2008/PY

0 (L23 OR L47) NOT 2005-2008/PY

TOTAL FOR ALL FILES

90 (L24 OR L48) NOT 2005-2008/PY L60

=> dup rem 160

PROCESSING COMPLETED FOR L60

27 DUP REM L60 (63 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 27 MEDLINE on STN DUPLICATE 1

- Kinetics of regulated protein-protein interactions revealed with firefly luciferase complementation imaging in cells and living animals.
- SO Proceedings of the National Academy of Sciences of the United States of America, (2004 Aug 17) Vol. 101, No. 33, pp. 12288-93. Electronic Publication: 2004-07-29. Journal code: 7505876, ISSN: 0027-8424.
- ΑU Luker Kathryn E; Smith Matthew C P; Luker Gary D; Gammon Seth T;
- Piwnica-Worms Helen; Piwnica-Worms David 2004424640 MEDLINE AN
- MEDLINE on STN L61 ANSWER 2 OF 27

DUPLICATE 2

- TI High-throughput sensing and noninvasive imaging of protein nuclear transport by using reconstitution of split Renilla luciferase.
- SO Proceedings of the National Academy of Sciences of the United States of America, (2004 Aug 10) Vol. 101, No. 32, pp. 11542-7. Electronic Publication: 2004-08-02.
  - Journal code: 7505876. ISSN: 0027-8424.
- AU Kim Sung Bae; Ozawa Takeaki; Watanabe Shigeaki; Umezawa Yoshio MEDLINE
- AN 2004401877
- L61 ANSWER 3 OF 27 MEDLINE on STN

DUPLICATE 3

- Molecular imaging of drug-modulated protein-protein interactions in living ΤI subjects.
- SO Cancer research, (2004 Mar 15) Vol. 64, No. 6, pp. 2113-9. Journal code: 2984705R, ISSN: 0008-5472.
- AU Paulmurugan Ramasamy; Massoud Tarik F; Huang Jing; Gambhir Sanjiv S
- AN 2004133506 MEDLINE
- L61 ANSWER 4 OF 27 MEDLINE on STN

DUPLICATE 4

- Molecular imaging of homodimeric protein-protein interactions in living TI subjects.
- The FASEB journal : official publication of the Federation of American SO Societies for Experimental Biology, (2004 Jul) Vol. 18, No. 10, pp. 1105-7. Electronic Publication: 2004-05-07. Journal code: 8804484. E-ISSN: 1530-6860.
- Massoud Tarik F; Paulmurugan Ramasamv; Gambhir Sanjiv S
- 2004326355 AN MEDLINE
- L61 ANSWER 5 OF 27 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
- Molecular imaging of homodimeric protein-protein interactions in living subjects
- SO FASEB JOURNAL, (MAY 2004) Vol. 18, No. 7, pp. 1105-+. ISSN: 0892-6638.

- AU Massoud T F; Paulmurugan R; Gambhir S S (Reprint)
- 2004:551653 SCISEARCH AN
- L61 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- TT High-Throughput Sensing and Noninvasive Imaging of Protein Nuclear Transport by Using Reconstitution of Split Renilla Luciferase Edited by Kim SB, Ozawa T, Watanabe S, Umezawa Y
- Assay and Drug Development Technologies (2004), 2(6), 703-704 CODEN: ADDTAR; ISSN: 1540-658X
- AU Auld, Doug
- AN 2005:141724 HCAPLUS
- L61 ANSWER 7 OF 27 MEDLINE on STN DUPLICATE 5
- ΤТ Optimizing luciferase protein fragment complementation for bioluminescent imaging of protein-protein interactions in live cells and animals. Methods in enzymology, (2004) Vol. 385, pp. 349-60. Ref: 31
- SO Journal code: 0212271. ISSN: 0076-6879.
- ΑU Luker Kathryn E; Piwnica-Worms David AN 2004232080 MEDLINE
- L61 ANSWER 8 OF 27 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TI Flashing a protein-protein interaction in living cells via split Renilla luciferase complementation.
- Luminescence (Chichester), (May 2004) Vol. 19, No. 3, pp. 149. print. SO Meeting Info.: 13th International Symposium on Bioluminescence and Chemiluminescence. Yokohama, Japan. August 02-06, 2004. ISSN: 1522-7235 (ISSN print).
- AU Kaihara, A.; Umezawa, Y.
- 2005:27427 BIOSIS AN
- L61 ANSWER 9 OF 27 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- TΙ Molecular imaging of homodimeric protein-protein interactions in living subjects.
- FASEB Journal, (May 2004) Vol. 18, No. 7. print. SO
  - ISSN: 0892-6638 (ISSN print).
- AU Massoud, Tarik F.; Paulmurugan, Ramasamy; Gambhir, Sanjiv S. [Reprint Authorl
- AN 2004:322534 BIOSIS
- L61 ANSWER 10 OF 27 MEDLINE on STN
- DUPLICATE 6
- ΤI Locating a protein-protein interaction in living cells via split Renilla luciferase complementation.
- Analytical chemistry, (2003 Aug 15) Vol. 75, No. 16, pp. 4176-81. SO Journal code: 0370536. ISSN: 0003-2700.
- AU Kaihara Asami; Kawai Yasutoshi; Sato Moritoshi; Ozawa Takeaki; Umezawa Yoshio
- 2003552461 MEDLINE AN
- L61 ANSWER 11 OF 27 MEDLINE on STN
- DUPLICATE 7 Monitoring protein-protein interactions using split synthetic
- renilla luciferase protein-fragment-assisted complementation.
- Analytical chemistry, (2003 Apr 1) Vol. 75, No. 7, pp. 1584-9. SO Journal code: 0370536, ISSN: 0003-2700.
- Paulmurugan R; Gambhir S S
- AN 2003186446 MEDITNE
- L61 ANSWER 12 OF 27 MEDLINE on STN

- DUPLICATE 8
- TI Noninvasive imaging of protein-protein interactions in living subjects by using reporter protein complementation and reconstitution strategies.
- SO Proceedings of the National Academy of Sciences of the United States of

- America, (2002 Nov 26) Vol. 99, No. 24, pp. 15608-13. Electronic Publication: 2002-11-18.
- Journal code: 7505876. ISSN: 0027-8424. AII Paulmurugan R; Umezawa Y; Gambhir S S
- 2002704588 MEDLINE AN
- L61 ANSWER 13 OF 27 MEDLINE on STN DUPLICATE 9
- Assay and screening methods for bioactive substances based on cellular signaling pathways.
- SO Journal of biotechnology, (2002 Feb) Vol. 82, No. 4, pp. 357-70. Ref: 17
- Journal code: 8411927, ISSN: 0168-1656, ΔII
- Umezawa Yoshio AN
- 2002255672 MEDLINE
- L61 ANSWER 14 OF 27 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 10
- TI A novel, two-component system for cell lethality and its use in
- engineering nuclear male-sterility in plants
- SO Plant Journal [Plant J.], (20020700) vol. 31, no. 1, pp. 113-125. ISSN: 0960-7412.
- ΑU Burgess, D.G.; Ralston, E.J.; Hanson, W.G.; Heckert, M.; Ho, M.; Jeng, T.; Palvs, J.M.; Tang, Keliang; Gutterson, N.
- AN 2003:10260 LIFESCI
- L61 ANSWER 15 OF 27 MEDLINE on STN
- Split luciferase as an optical probe for detecting
- protein-protein interactions in mammalian cells based on protein splicing.

DUPLICATE 11

- Analytical chemistry, (2001 Jun 1) Vol. 73, No. 11, pp. 2516-21.
- Journal code: 0370536. ISSN: 0003-2700.
- ΑU Ozawa T; Kaihara A; Sato M; Tachihara K; Umezawa Y
- ΔN 2001335602 MEDLINE
- L61 ANSWER 16 OF 27 MEDLINE on STN DUPLICATE 12
- Isolation and properties of the luciferase stored in the ovary of the scyphozoan medusa Periphylla periphylla.
- The Biological bulletin, (2001 Dec) Vol. 201, No. 3, pp. 339-47. SO
- Journal code: 2984727R. ISSN: 0006-3185.
- AU Shimomura O; Flood P R; Inouye S; Bryan B; Shimomura A
- AN 2002056155 MEDLINE
- L61 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Luciferase of Cypridina hilgendorfii, and its cDNA cloning and expression
- U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 930,486, abandoned. SO CODEN: USXXAM
- IN Kazami, Jun; Nakamura, Haruji; Goto, Toshio
- AN 1997:140387 HCAPLUS DN 126:182299
- OREF 126:35101a,35104a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5604123	A	19970218	US 1994-260042	19940615

- L61 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- Method, apparatus, and indicator for indicating evaporable hydrocarbons or environmental poisons in water or other liquids
- PCT Int. Appl., 28 pp.
- CODEN: PIXXD2
- Kroneld, Rolf TN
- AN 1993:141700 HCAPLUS
- DN 118:141700
- OREF 118:24258h, 24259a

PATENT NO. KIND DATE APPLICATION NO. DATE PI WO 9302208 A1 19930204 WO 1992-F1211 19920709 W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE

L61 ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Thermostable luciferases and their manufacture by expression of firefly luciferase cDNA mutants in host cells

SO Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

IN Naoki, Kajivama; Eiichi, Nakano

AN 1993:206974 HCAPLUS

DN 118:206974

OREF 118:35461a

OILEI	PATENT NO.	KIND DATE	APPLICATION NO.	DATE		
PI	EP 524448 EP 524448	A1 19930127 B1 19990609	EP 1992-110808	19920626		
	R: CH, DE, DK, JP 05244942 JP 3048466 US 5229285	FR, GB, LI, NL A 19930924 B2 20000605 A 19930720	JP 1992-131057 US 1992-903047	19920522 19920623		

L61 ANSWER 20 OF 27 MEDLINE on STN DUPLICATE 13

TI Specific synthesis of adenosine(5')tetraphospho(5')nucleoside and adenosine(5')oligophospho(5')adenosine (n > 4) catalyzed by firefly luciferase.

SO European journal of biochemistry / FEBS, (1993 Feb 15) Vol. 212, No. 1, pp. 263-70.
Journal code: 0107600. ISSN: 0014-2956.

AU Ortiz B: Sillero A: Gunther Sillero M A

AN 93185632 MEDLINE

L61 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Mutant luciferase of a firefly, mutant luciferase genes, novel recombinant DNAs containing the genes, and a method of producing mutant luciferase

SO Eur. Pat. Appl., 20 pp. CODEN: EPXXDW

IN Kajiyama, Naoki

AN 1992:52954 HCAPLUS

DN 116:52954

ODER 116:0030a 0042a

OREE	110.50550,50						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	EP 449621	A1	19911002	EP 1991-302717	19910327		
	EP 449621	B1	19960828				
	R: CH, I	DE, FR, GB, LI	, NL				
	JP 03285683	A	19911216	JP 1990-294258	19901030		
	US 5219737	A	19930615	US 1991-675211	19910326		
	US 5330906	A	19940719	US 1993-76042	19930615		

L61 ANSWER 22 OF 27 MEDLINE on STN DUPLICATE 14

TI Synthesis of dinucleoside polyphosphates catalyzed by firefly luciferase. SO European journal of biochemistry / FEBS, (1991 Dec 5) Vol. 202, No. 2, pp.

SO European journal of biochemistry / FEBS, (1991 Dec 5) Vol. 202, No. 2, pp. 507-13.

Journal code: 0107600. ISSN: 0014-2956.

AU Sillero M A; Guranowski A; Sillero A

AN 92104173 MEDLINE

L61 ANSWER 23 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Luciferase cDNA of Luciola cruciata and its expression in Escherichia

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

- IN Tatsumi, Hiroki; Masuda, Tsutomu; Nakano, Eiichi
- AN 1990:586082 HCAPLUS
- DN 113:186082
- OREF 113:31367a,31370a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	JP 02065780	A	19900306	JP 1988-216229	19880901		
	JP 07071485	В	19950802				
	EP 364707	A1	19900425	EP 1989-116099	19890831		
	R: CH, DE, FR	, GB, L1	, NL				

- L61 ANSWER 24 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- TΙ Cloning and expression of firefly luciferase gene in Escherichia coli
- SO Eur. Pat. Appl., 35 pp. CODEN: EPXXDW
- TN Masuda, Tsutomu; Tatsumi, Hiroki; Nakano, Eiichi
- 1989:510337 HCAPLUS AN
- DN 111:110337

OREF	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 301541	A2	19890201	EP 1988-112233	19880728
	EP 301541	A3	19891011		
	EP 301541	B1	19940119		
	R: CH, D	E, FR, GB, L	I, NL		
	JP 01034286	A	19890203	JP 1987-187724	19870729
	JP 01034289	A	19890203	JP 1987-187725	19870729
	JP 01051086	A	19890227	JP 1987-205194	19870820
	JP 06012995	В	19940223		
	US 4968613	A	19901106	US 1988-224445	19880726

- L61 ANSWER 25 OF 27 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on DUPLICATE 15
- The function of coenzyme A in luminescence.
- SO BIOCHIM ET BIOPHYS ACTA, (1958) Vol. 27, No. 3, pp. 519-532.
- AU AIRTH, R. L.; RHODES, W. C.; McELROY, W. D.
- AN 1958:39645 BIOSIS
- L61 ANSWER 26 OF 27 NTIS COPYRIGHT 2008 NTIS on STN
- ΤI Imaging Regulated Protein-Protein Interaction in Cells and Living Animals by Enhanced Luciferase protein Fragment Complementation.
- NR PB2007-103209/XAB; PAT-APPL-10-912 862 51p; Filed 6 Aug 04
- AU Worms, D. P.; Luker, K.; Luker, G.
- AN 2007(11):00398 NTIS
- L61 ANSWER 27 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- Imaging CXCR4 Signaling with Firefly Luciferase Complementation TI
- Analytical Chemistry (Washington, DC, United States) ACS ASAP SO CODEN: ANCHAM; ISSN: 0003-2700
- ΑU Luker, Kathryn E.; Gupta, Mudit; Luker, Gary D.
- 2008:681907 HCAPLUS AN
- => d ab 6-9,12,13,15
- L61 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
- AB Unavailable
- L61 ANSWER 7 OF 27 MEDLINE on STN

- L61 ANSWER 8 OF 27 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
- 161 ANSWER 9 OF 27 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN BH Homodimeric protein interactions are potent regulators of cellular functions, but are particularly challenging to study in vivo. We used a matter that the regulator of the protein the protein of the protein of

split synthetic renilla luciferase (hRLUC) complementation-based bioluminescence assay to study homodimerization of herpes simplex virus type 1 thymidine kinase (TK) in mammalian cells and in living mice. We quantified and imaged homodimerization of TK chimeras containing N-terminal (N-hRLUC) or C-terminal (C-hRLUC) fragments of hRLUC in the upstream and downstream positions, respectively (tail-to-head homodimer). This was monitored using luminometry (68-fold increase, and was significantly (P 0.01) above background light emission) and by CCD camera imaging of living mice implanted with ex vivo transfected 293T cells (2.7-fold increase, and is significantly (P 0.01) above background light emission). We also made a mutant-TK to generate N-hRLUC mutant TK and mutant TK-C-hRLUC by changing a single amino acid at position 318 from arginine to cysteine, a key site that has previously been reported to be essential for TK homodimerization, to support the specificity of the hRLUC complementation signal from TK homodimerization. Ex vivo substrate (8-3H Penciclovir) accumulation assays in 293T cells expressing the TK protein chimeras showed active TK enzyme. We also devised an experimental strategy by constructing variant TK chimeras ( possessing extra N-hRLUC or C-hRLUC 'spacers') to monitor incremental lack of association of the tail-to-head TK homodimer. Application of this potentially generalizable assay to screen for molecules that promote or disrupt ubiquitous homodimeric protein - protein interactions could serve not only as an invaluable tool to understand biological networks but could also be applied to drug discovery and validation in living subjects.

- L61 ANSWER 12 OF 27 MEDLINE on STN DUPLICATE 8
- Answer 10 c 2/ mobiling of the model of the

L61 ANSWER 13 OF 27 MEDLINE on STN DUPLICATE 9 AB Assay and screening methods for bioactive substances based on cellular signaling pathways are presented. Examples include: (1) intracellular protein phosphorylation and protein-protein interaction, (1-i) a new assay method for evaluating chemical selectivity of agonists for insulin signaling pathways based on agonist-induced phosphorylation of a target peptide, (1-ii) an SPR-based screening method for agonist selectivity for insulin signaling pathways based on the binding of phosphotyrosine to its specific binding protein, (1-iii) a fluorescent indicator for tyrosine phosphorylation-based insulin signaling pathways, and (1-iv) split luciferase as an optical probe for detecting protein-protein interactions in mammalian cells based on protein splicing; (2) a screening method for antigen-specific IgE using mast cells based on intracellular calcium signaling; (3) a screening method for substrates of multidrug resistance-associated protein (MRP); and (4) fluorescent indicators for cyclic GMP based on cyclic GMP-dependent protein kinase Ialpha and green fluorescent proteins.

L61 ANSWER 15 OF 27 MEDLINE on STN DUPLICATE 11

AB

=> fil .becpat COST IN U.S. DOLLARS

1.64

TOTAL FOR ALL FILES

We describe a new method for detecting protein-protein interactions in intact mammalian cells; the approach is based on protein splicing-induced complementation of rationally designed fragments of firefly luciferase. The protein splicing is a posttranslational protein modification through which inteins (internal proteins) are excised out from a precursor fusion protein, ligating the flanking exteins (external proteins) into a contiguous polypeptide. As the intein, naturally split DnaE from Synechocystis sp. PCC6803 was used: The N- and C-terminal DnaE, each fused respectively to N- and C-terminal fragments of split luciferase, were connected to proteins of interest. In this approach, protein-protein interactions trigger the folding of DnaE intein, wherein the protein splicing occurs and thereby the extein of ligated luciferase recovers its enzymatic activity. To test the applicability of this split luciferase complementation, we used insulin-induced interaction between known binding partners, phosphorylated insulin receptor substrate 1 (IRS-1) and its target N-terminal SH2 domain of PI 3-kinase. Enzymatic luciferase activity triggered by insulin served to monitor the interaction between IRS-1 and the SH2 domain in an insulin dose-dependent manner, of which amount was assessed by the luminescent intensity. This provides a convenient method to study phosphorylation of any protein or interactions of integral membrane proteins, a class of molecules that has been difficult to study by existing biochemical or genetic methods. High-throughput drug screening and quantitative analysis for a specific pathway in tyrosine phosphorylation of IRS-1 in insulin signaling are also made possible in this system.

SINCE FILE

TOTAL

ENTRY SESSION FULL ESTIMATED COST 60.33 60.54 FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 16:08:09 ON 25 JUN 2008 ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS. 3 FILES IN THE FILE LIST => s (124 or 148) and wo/pc and pry<=2004 and py>=2005 range=2005, FILE 'BIOTECHDS' 19609 WO/PC 25470 PRY<=2004 (PRY<=2004) 86592 PY>=2005 (PY>=2005) 1.62 1 (L16 OR L40) AND WO/PC AND PRY<=2004 AND PY>=2005 FILE 'HCAPLUS' 264945 WO/PC 795595 PRY<=2004 4370090 PY>=2005 L63 5 (L19 OR L43) AND WO/PC AND PRY<=2004 AND PY>=2005 FILE 'WPIDS' 470791 WO/PC 1504558 PRY<=2004 3074956 PY>=2005 (PY>=2005)

1 (L23 OR L47) AND WO/PC AND PRY<=2004 AND PY>=2005

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PROCESSING COMPLETED FOR L65

5 DUP REM L65 (2 DUPLICATES REMOVED) L66

=> d tot

ANSWER 1 OF 5 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN L66

TI New isolated, characterized and functional complementation system comprising a protein fused to one luciferase

fragment of a pair of firefly luciferase fragments,

useful in protein-protein interaction assays;

production of a recombinant fusion protein having luminescence useful for detection of protein-protein interaction and in high throughput screening

PIWNICA-WORMS D; LUKER K; LUKER G ΔII

AN 2005-09455 BIOTECHDS

ΡI WO 2005015161 17 Feb 2005

L66 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Detection of protein translocation by β-galactosidase reporter fragment complementation

SO PCT Int. Appl., 62 pp.

CODEN: PIXXD2

Blau, Helen M.; Wehrman, Thomas S. TN

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ΡI		2005113838					20051201			WO 2005-US17530					20050518 <				
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ΤI Split enzyme linked immunosorbent for detecting analyte in solution

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

Weiss, Shimon; Wu, Anna M.; Perry, L. Jean

HR. LV. MK. YU

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